

## United States Patent [19]

Sartori et al.

[11] 4,217,238

[45] Aug. 12, 1980

[54] PROCESS FOR REMOVING ACID GASES  
WITH HINDERED AMINES AND AMINO  
ACIDS[75] Inventors: Guido Sartori, Linden; David W.  
Savage, Summit, both of N.J.[73] Assignee: Exxon Research & Engineering Co.,  
Florham Park, N.J.

[21] Appl. No.: 835,810

[22] Filed: Sep. 22, 1977

## Related U.S. Application Data

[62] Division of Ser. No. 750,520, Dec. 14, 1976, Pat. No.  
4,094,957.[51] Int. Cl.<sup>2</sup> ..... C09K 3/00[52] U.S. Cl. .... 252/192; 423/220;  
423/223; 260/584 R; 252/189; 252/190;  
423/226; 423/228; 423/232[58] Field of Search ..... 252/192, 189, 190;  
423/220, 223, 226-228, 232, 233, 236, 243;  
260/584 R

[56]

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Primary Examiner—Benjamin R. Padgett

Assistant Examiner—J. L. Barr

Attorney, Agent, or Firm—Albert P. Halluin

[57]

## ABSTRACT

Acidic components are removed from gaseous mixtures by contacting the gaseous mixture with an aqueous solution comprising (1) a basic salt and (2) an activator for said basic salt comprising at least one sterically hindered amine and an aminoacid which is a cosolvent for the sterically hindered amines. The aminoacid serves to prevent phase separation of the aqueous solution at high temperatures and low fractional conversions during the contacting.

11 Claims, No Drawings

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Title: **JP53081490A2:**  
**RITSUTAISHOGAIAMINOYOBIAMINOSANDESANSEIGASUOJOKYO**  
**REMOVING ACIDIC GASES WITH STERIC HINDRANCE AMINE AND**

Country: JP Japan  
 Kind: A2 (See also: JP63007813B4 )

Inventor: GUIDO SARUTORI;  
 DEIBITSUDO DABURIYUU SABEJI;

Assignee: ESSO RES \* ENG CO  
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Published / Filed: 1978-07-18 / 1977-12-14

Application Number: JP1977000149457

IPC Code: Advanced: B01D 53/14; B01D 53/40; B01D 53/48; B01D 53/52; B01D 53/62;  
 B01D 53/77;  
 Core: more...  
 IPC-7: B01D 53/16;

ECLA Code: None

Priority Number: 1976-12-14 US1976000750520

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Family:

Buy PDF	Publication	Pub. Date	Filed	Title
<input checked="" type="checkbox"/>	US4217238	1980-08-12	1977-09-22	Process for removing acid gases with hind
<input checked="" type="checkbox"/>	US4094957	1978-06-13	1976-12-14	Process for removing acid gases with hind
<input checked="" type="checkbox"/>	NL7712558A	1978-06-16	1977-11-15	WERKWIJZE VOOR HET VERWIJDEREN GASMENGSELS.
<input checked="" type="checkbox"/>	MY0004883A	1983-12-31	1983-12-31	PROCESS FOR REMOVING ACID GASES AMINO ACIDS
<input checked="" type="checkbox"/>	JP63007813B4	1988-02-18	1977-12-14	RITSUTAISHOGAIAMINOYOBIAMINOSAI
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<input checked="" type="checkbox"/>	GB1587874A	1981-04-08	1977-09-23	PROCESS FOR REMOVING ACID GASES AMINO ACIDS
<input checked="" type="checkbox"/>	FR2374071B1	1984-10-26	1977-11-16	
<input checked="" type="checkbox"/>	FR2374071A1	1978-07-13	1977-11-16	PROCEDE ET COMPOSITION POUR ENL D'UN MELANGE GAZEUX, A L'AIDE D'AV

				L'EMPECHEMENT STERIQUE ET D'AMIN
<input checked="" type="checkbox"/>	DE2755569C2	1990-05-03	1977-12-09	Verfahren zur Entfernung von CO <sub>2</sub> aus einer Absorptionsloesung
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<input checked="" type="checkbox"/>	CA1098506A1	1981-03-31	1977-09-23	PROCESS FOR REMOVING ACID GASES ACIDES
<input checked="" type="checkbox"/>	BR7708271A	1978-08-15	1977-12-13	PROCESSO PARA REMOVER COMPONENTES GASOSA, SOLUCAO DE LAVAGEM E CO
<input checked="" type="checkbox"/>	AU3096777A1	1979-11-15	1977-11-25	REMOVING ACID GASES
<input checked="" type="checkbox"/>	AU0515976B2	1981-05-14	1977-11-25	REMOVING ACID GASES
16 family members shown above				

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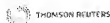
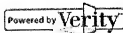
Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6423282	2002-07-23	Araki; Ryosuke	Nippon Nyukazai Co., Ltd.	Method for the regeneration containing methyldiethanol

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Info:

None



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